

**SECRET**

MONTHLY REPORT



25X1

PAR 222

10 July 1964

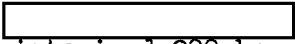
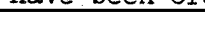
SUBJECT: Stereo Registration System

TASK/PROBLEM

1. Investigate possible means for automatically maintaining proper registration for stereo viewing on rear projection and direct viewing roll film viewers.

DISCUSSION

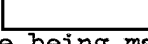
2. Electrical:

a. Electronic logic parts needed to yield meter output indication have been ordered and some parts have been received.   "S-PAC" logic was chosen. This is a transistorized 200 kc static logic mounted on plug-in boards.

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b. The two attachments, Figures 1 and 2, show pulse wave-forms and a basic logic diagram. Signals "a" and "b" are the two photo multiplier inputs. Signal "AC" is the 60-cycle line which is used to generate the cathode ray tube sweep ("HOR" and "VER") and logic sweep phasing. The phaser emits four 90-degree displaced sine waves. The scan gates, operated by the four sine waves, generate the sweep sector gates needed to determine the coordinates "X" and "Y"

c. Design work is now concentrated on the phaser and yoke coil drivers. At present, a one-inch diameter circle can be displayed on the C.R.T. (Cathode Ray Tube). With more suitable transformers (on order) this diameter can be enlarged.

3. Optical-Mechanical: A second zoom lens could not be obtained because this type is no longer made. An optical equivalent has been ordered. Dichroic filters being made at  are encountering manufacturing problems. Wood optical mounts are being made.

PLANNED ACTIVITY

4. Planned activities for the next period are:

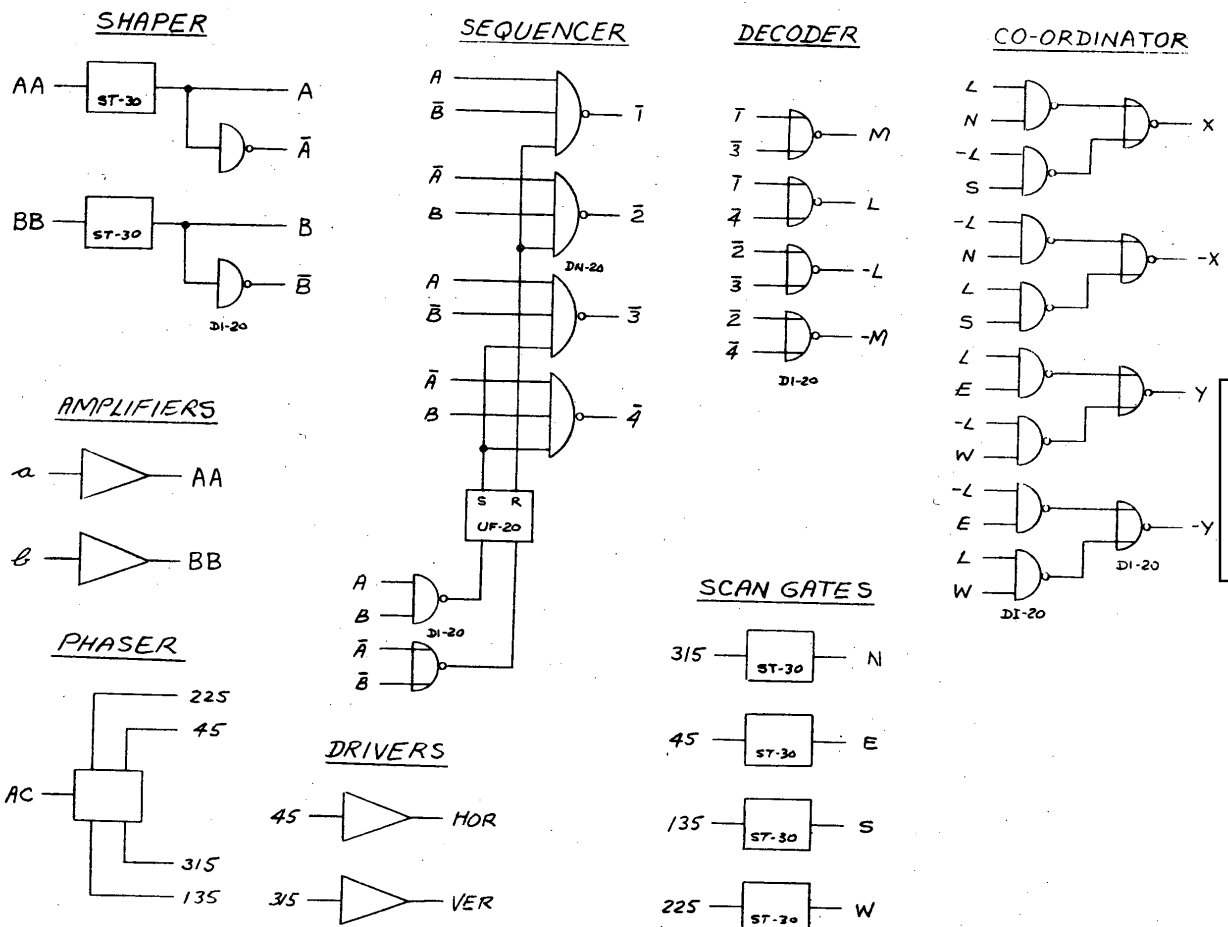
- a. Complete C.R.T. sweep circuit design and test out logic circuits.
- b. Start photo multiplier tie-in to logic.
- c. Start assembly of optical breadboard.

GROUP-1  
Excluded from automatic downgrading  
and declassification

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Declass Review by NGA.

GROUP 1  
Excluded from automatic  
downgrading and  
declassification



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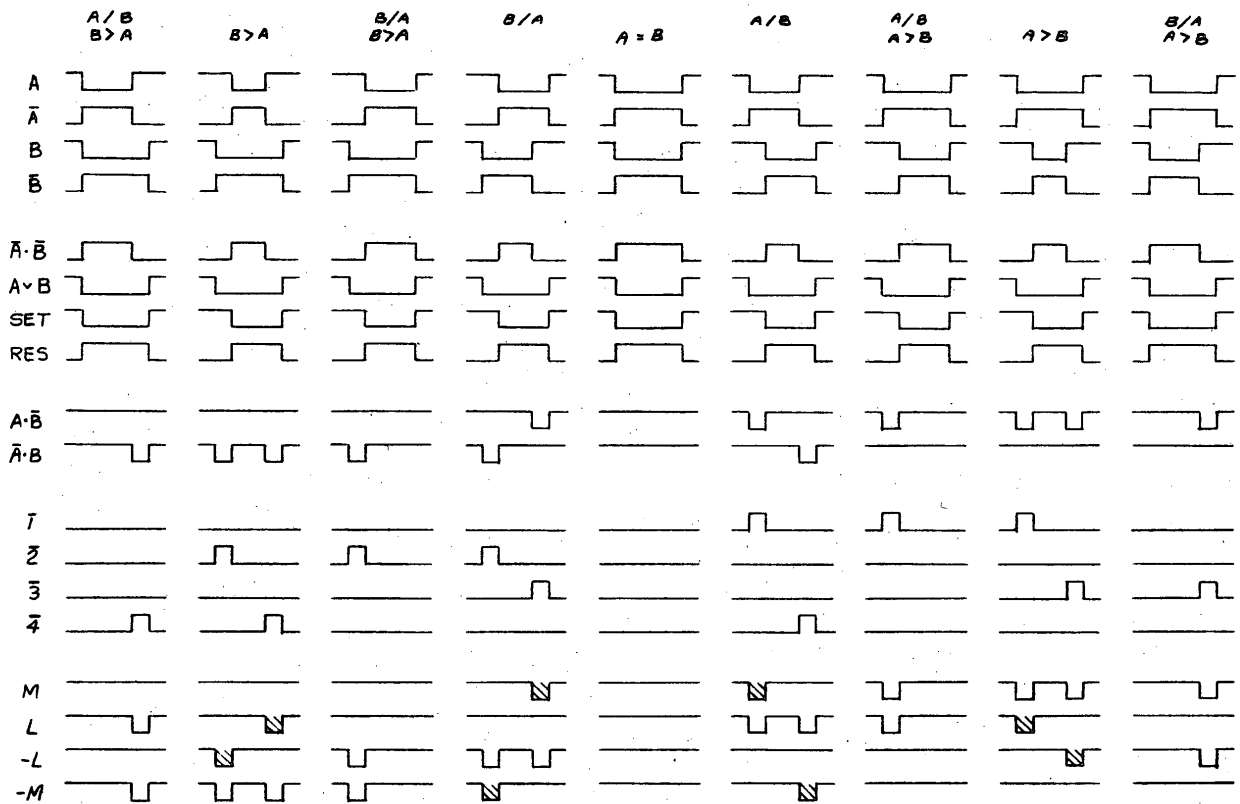
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Figure 2.

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GROUP 1  
Excluded from automatic  
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Figure 1.